وزارة التربية والتعليم
الادارة المركزية لتطوير المناهج
مكتب مستشار الرياضيات

Model (1)

A) Choose the suitable to complete the following :

	$\frac{1}{2}$	4	$\frac{5}{8}$	>	belong
34					
	subset	<	4	12	

1) $2\frac{1}{4} - 1\frac{5}{8}$=.....

2) $-1\frac{1}{2}$ ☐ - 4

3) 0.75 ..... to the set of rational numbers

4) $|-4|$=...

5) In the equation $y=3x$, If $x=4$, then the value of y=...

B) Using the following set of values 7, 3, 3, 13, 10, 6 : choose the card from group B that suits group A as follows :

A

1) The mean
2) The mode
3) The range

B

- 3
- 13
- 10
- 7

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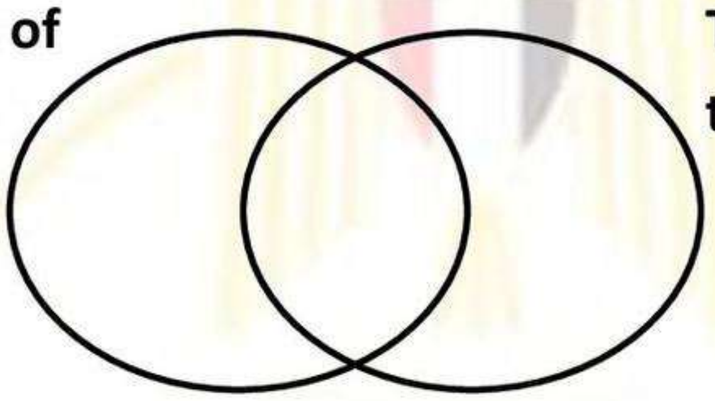
Model (2)

A) Using the following Venn diagram, find the greatest common factor (G.C.F) of the quotients of the following division operations.

264÷22= …..

270 ÷15 = …..

The prime factors of the number…….



The prime factors of the number…….

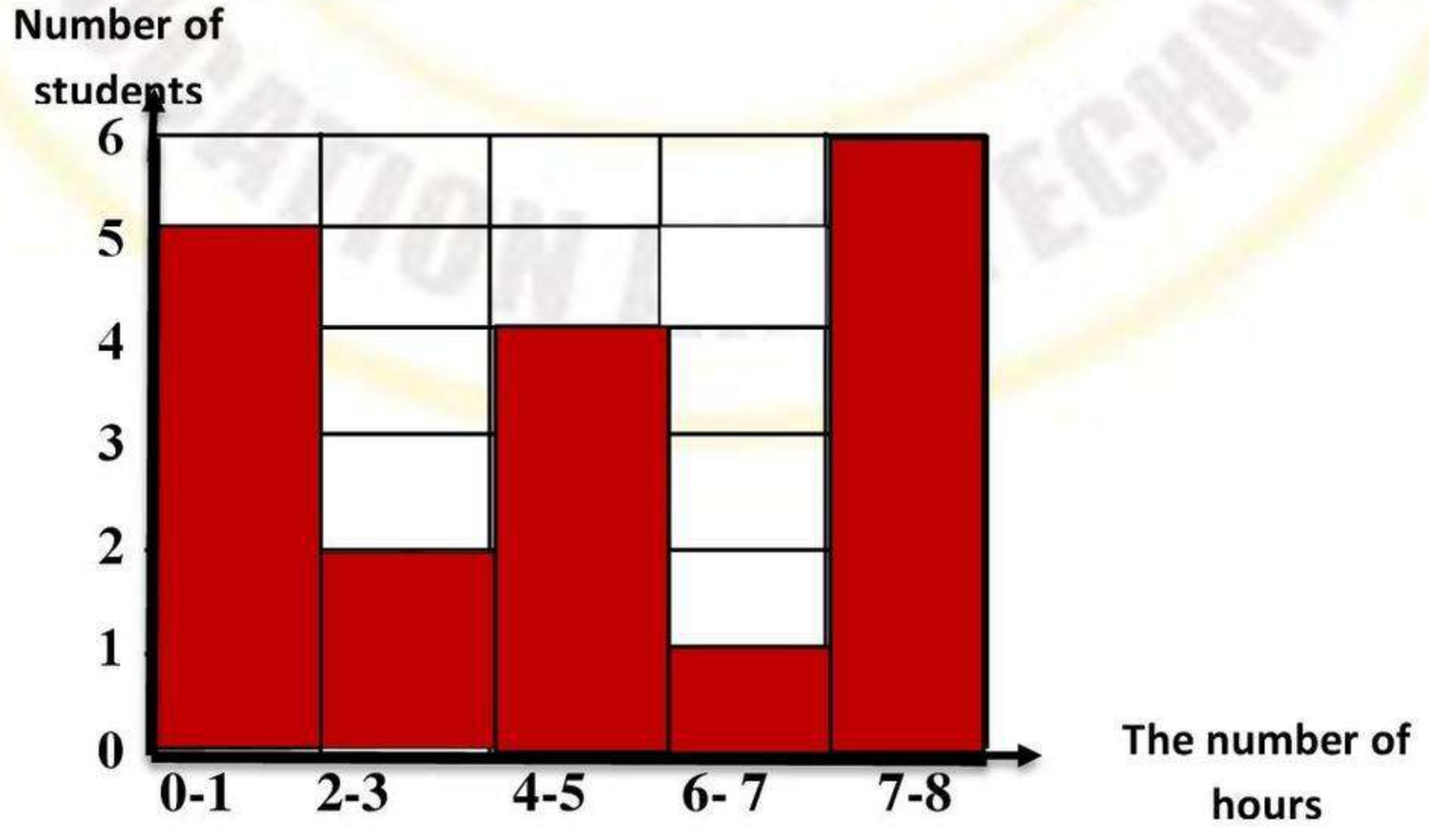
G.C.F = ……

B) The following graphical representation shows a number of studying hours to students , answer the following :

1) How many students studied for 6 to 7 hours?

2) How many students studied 4 hours or more?

3) How many students does the data represent?



وزارة التربية والتعليم
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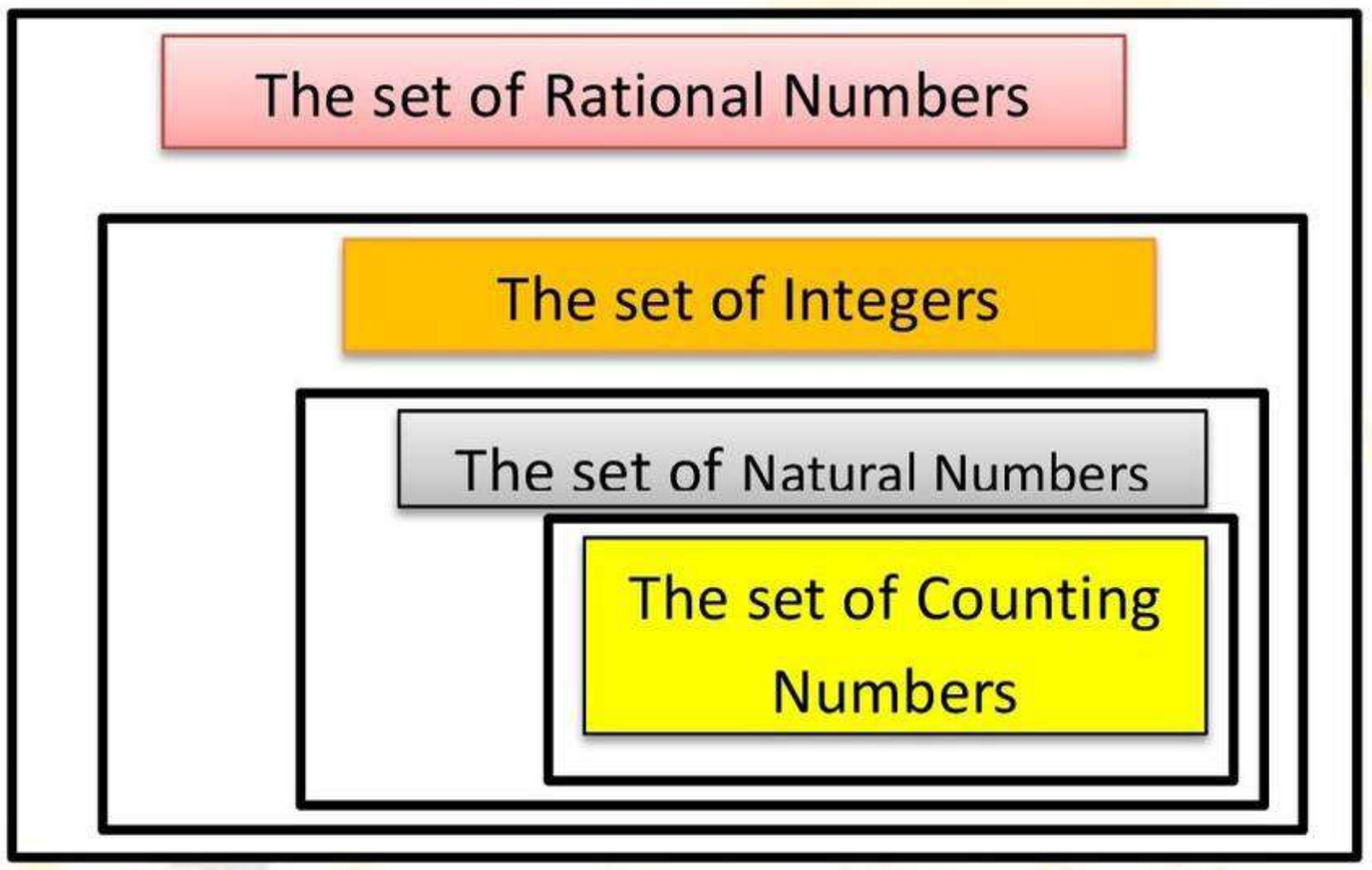
Model (3)

A) Put the following numbers in their suitable places on the Venn diagram and then complete :

$\frac{7}{9}$, -200 , 1 , 0 , - 4.9 , 8.05 , 77 , -13 , 3



1) The set of Integers ..... the set of Rational Numbers.

2) The number 3 ..... to the set of Natural Numbers.

3) The numbers that represent the solutions of the inequality $x \geq 1$

From the previous numbers in the set of Integers are .....

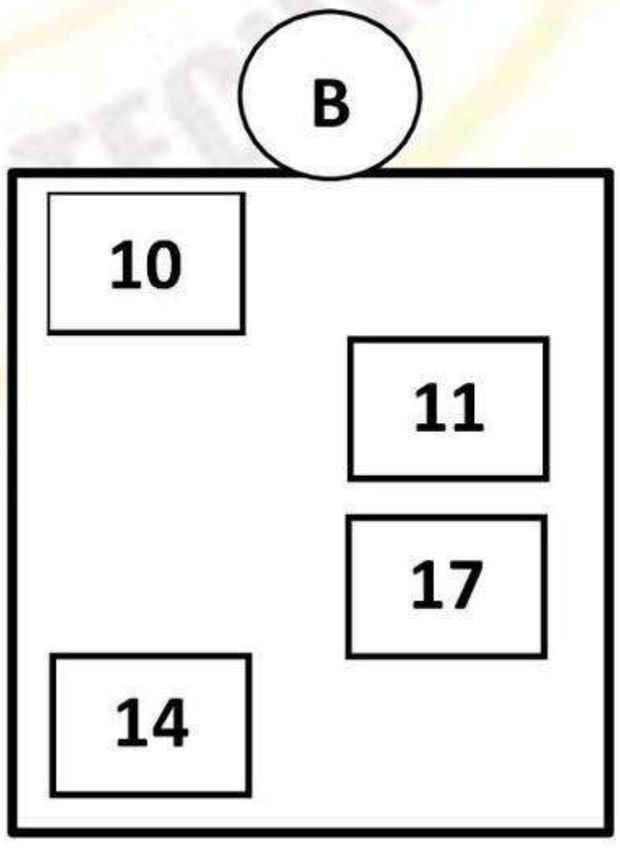
B) Using the following set of values 5 , 11, 18, 11, 1, 14: choose the card from group B that suits group A as follows :

A

1) The Arithmetic mean

2) The mode

3) The range



وزارة التربية والتعليم
الادارة المركزية لتطوير المناهج
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Model (4)

A) Complete the following table :

The Equation	Verbal expression of the equation	The solution	The dependent variable	The independent variable
Y=2x+3	multiply by 2, then add 3	When x=2 y=……	…….	x
$y = \frac{1}{2}x - 2$	……	When x=8 y=…….	y	…….

B) Match each card to the suitable one

The solution of the equation 8b = 40	-20 > ……	1,386÷21=…	The greatest common Factors of two numbers 18 and 36

66	5	18	-25

وزارة التربية والتعليم
الادارة المركزية لتطوير المناهج
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	$\frac{1}{2}$	4	$\frac{5}{8}$	>	belong
34					
	subset	<	4	12	

1) $2\frac{1}{4} - 1\frac{5}{8} = \frac{5}{8}$

2) $-1\frac{1}{2}$ [>] -4

3) 0.75 ..... to the set of rational numbers
BELONG

4) $|-4| = \ldots$ 4

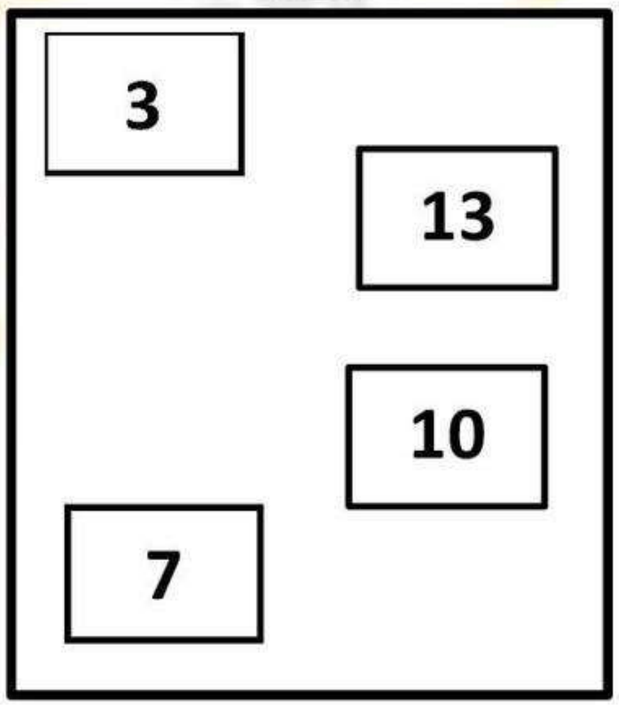
5) In the equation $y=3x$, If $x=4$, then the value of $y=\ldots$ 12

B) Using the following set of values 7, 3, 3, 13, 10, 6 : choose the card from group B that suits group A as follows :

A

1) The mean $\frac{7+3+3+13+10+6}{6} = 7$
2) The mode 3
3) The range $13 - 3 = 10$

B



Model (2)

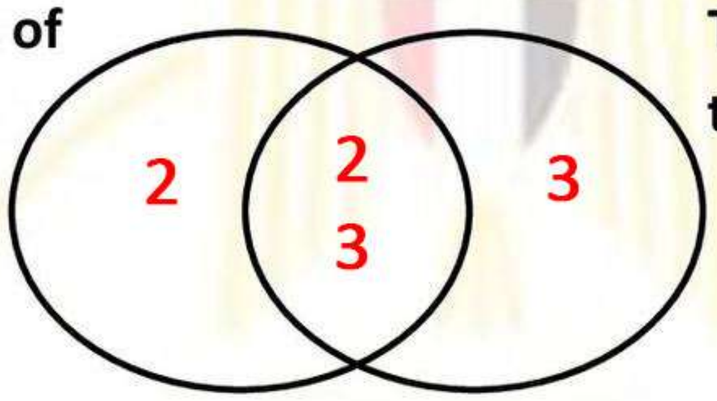
A) Using the following Venn diagram, find the greatest common factor (G.C.F) of the quotients of the following division operations.

$264 \div 22 =$ 12 .....

$270 \div 15 =$ 18

The prime factors of the number 12 .....

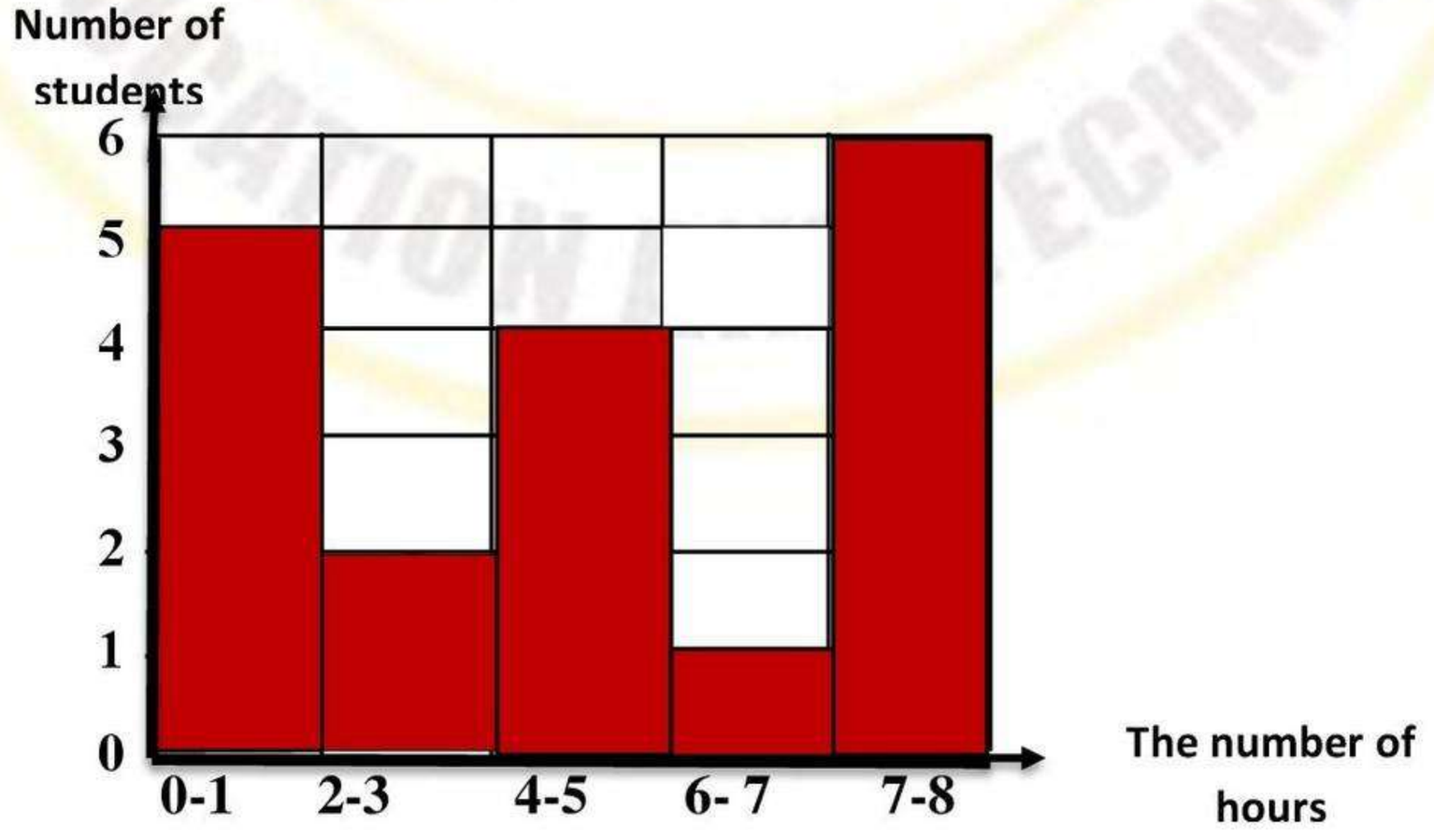
The prime factors of the number 18 .....



G.C.F = 3 x 2 = 6 .....

B) The following graphical representation shows a number of studying hours to students , answer the following :

1) How many students studied for 6 to 7 hours? 1
2) How many students studied 4 hours or more? 4 + 1 + 6 = 11
3) How many students does the data represent? 5 + 2 + 4 + 1 + 6 =18



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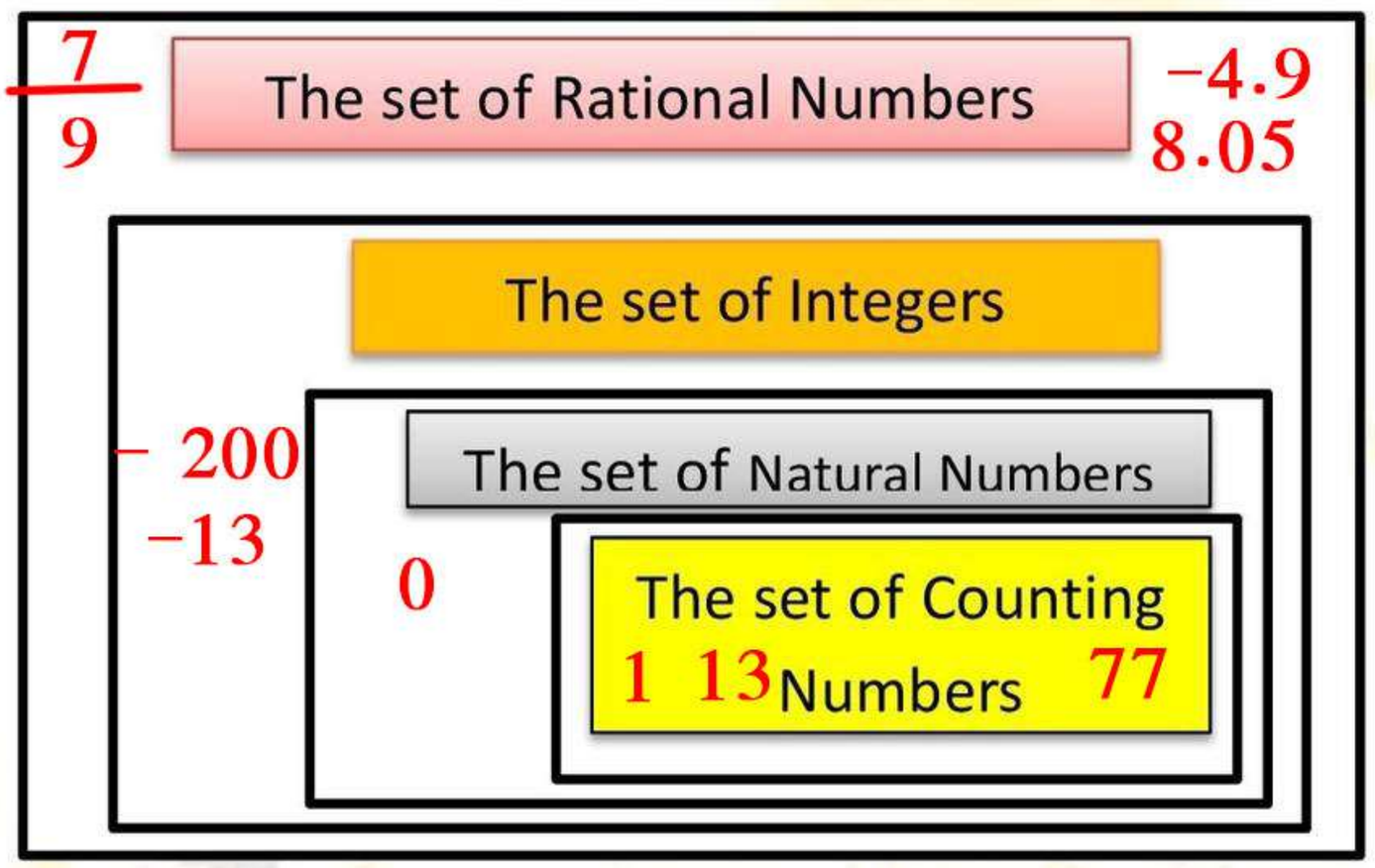


1) The set of Integers ..SUBSET.. the set of Rational Numbers.

2) The number 3 ..BELONG.. to the set of Natural Numbers.

3) The numbers that represent the solutions of the inequality $x \geq 1$

From the previous numbers in the set of Integers are ..1, 13 , 77

B) Using the following set of values 5 , 11, 18, 11, 1, 14: choose the card from group B that suits group A as follows :

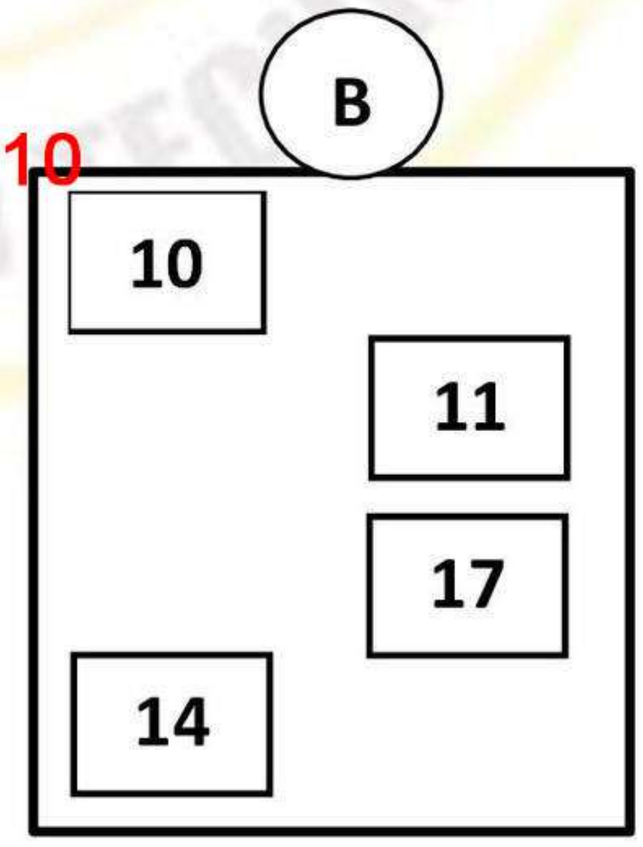
A

$\frac{5 + 11 + 18 + 11 + 1 + 14}{6} = 10$

1) The Arithmetic mean

2) The mode 11

3) The range 18 - 1 = 17



وزارة التربية والتعليم
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مكتب مستشار الرياضيات

Model (4)

A) Complete the following table :

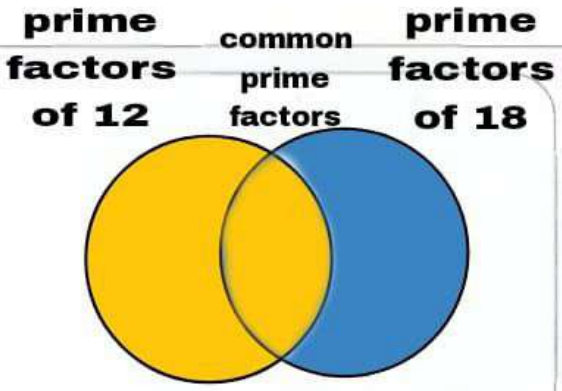
The Equation	Verbal expression of the equation	The solution	The dependent variable	The independent variable
Y=2x+3	multiply by 2, then add 3	When x=2 y=2x 2 + 3 =7	..... y	x
$y = \frac{1}{2}x - 2$	..... half x decreased by 2	When x=8 y=.....2.....	y	.....x.....

B) Match each card to the suitable one

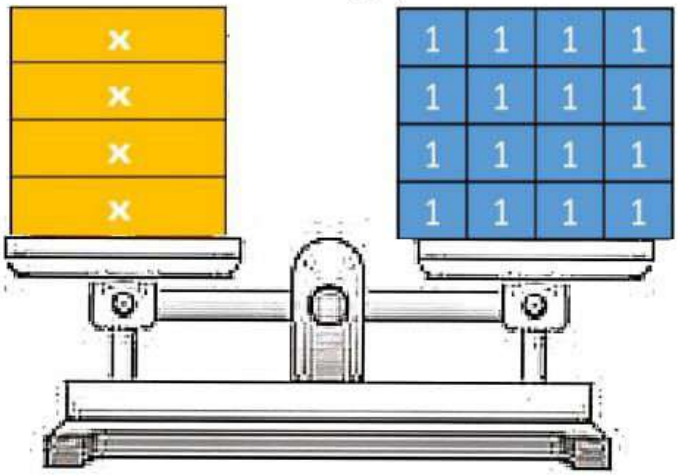
The solution of the equation 8b = 40	-20 >	1,386÷21=...	The greatest common Factors of two numbers 18 and 36
66	5	18	-25

الاسم : .....
الفصل : .....

Whiteboard: Venn Diagrams Use the prime factorization of 12 and 18 to complete the Venn diagram. Demonstrate your understanding by drawing in your journal or using the digital tool.



Write an Equation and Solve Answer the following questions.



A. Write an equation for the previous model. Explain how you wrote the equation.

B. Solve the equation. How do you know that you solved the equation correctly?

Variables Use the equation $y = 3x$ to answer these questions.

A. Which variable represents the input number?

B. Which variable represents the output number?

C. Which is the dependent variable?

D. Which is the independent variable?

الاسم : .....

الفصل : .....

Gathering Eggs Maram saw this problem in her math book:

"Aunt Farha gathers the same number of eggs from her chickens every day for two weeks.

In the third week, she cooks exactly half of the eggs she had gathered previously. How many eggs does she have left?"

Which one of these options will help Maram solve this problem?

A. Divide x by 2 and subtract it from 14.

B. Multiply x by 14 and divide the product by 2.

C. Multiply x by 14 and subtract the quotient of x and 2.

D. Divide x by $\frac{1}{2}$ and subtract it from 14 plus x.

Ordering the Operations What steps would you take to evaluate the expression $9 + (p^2 - 3) \div 2$ for $p = 5$?

Multiply	Add	Subtract	Divide
Simplify Exponent		Substitute the value of the variable	

Step 1	(A)
Step 2	(B)
Step 3	(C)
Step 4	(D)
Step 5	(E)

الواجب المنزلي
Grade 6
1st Term

الاسم : .....
الفصل : .....

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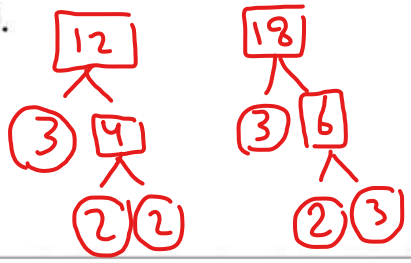
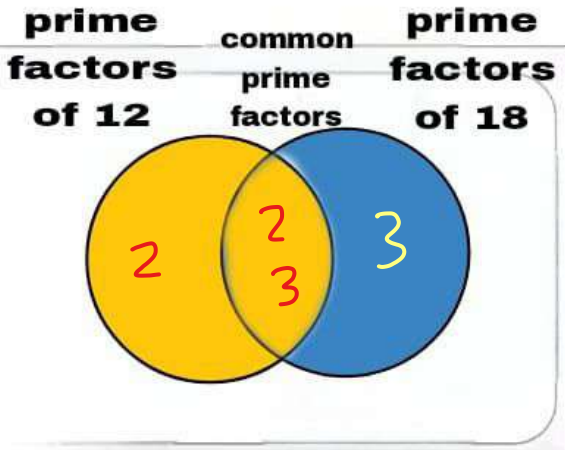
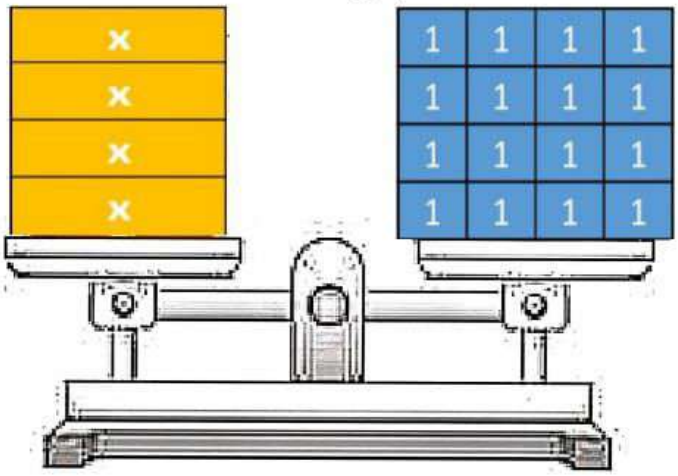




Write an Equation and Solve Answer the following questions.



$4x = 16$

A. Write an equation for the previous model. Explain how you wrote the equation.

B. Solve the equation. How do you know that you solved the equation correctly?

$x = 16 \div 4 \Rightarrow x = 4$

Variables Use the equation $y = 3x$ to answer these questions.

A. Which variable represents the input number? x

B. Which variable represents the output number? y

C. Which is the dependent variable? y

D. Which is the independent variable? x

لا تنسونا بصالح الدعاء

محمود الحوتي

الاسم : .....

الفصل : .....

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Which one of these options will help Maram solve this problem?

A. Divide x by 2 and subtract it from 14.

B. Multiply x by 14 and divide the product by 2.

$14x \div 2$

C. Multiply x by 14 and subtract the quotient of x and 2.

D. Divide x by $\frac{1}{2}$ and subtract it from 14 plus x.

Ordering the Operations What steps would you take to evaluate the expression $9 + (p^2 - 3) \div 2$ for $p = 5$?

Multiply	Add (5)	Subtract (3)	Divide (4)
Simplify Exponent (2)		Substitute the value of the variable (1)	

Step 1	(A)
Step 2	(B)
Step 3	(C)
Step 4	(D)
Step 5	(E)

Solution

$9 + (5^2 - 3) \div 2$

$= 9 + (25 - 3) \div 2$

$= 9 + 22 \div 2$

$= 9 + 11$

$= 20$

بالتوفيق إن شاء الله

أستاذ/ محمود الحوتي